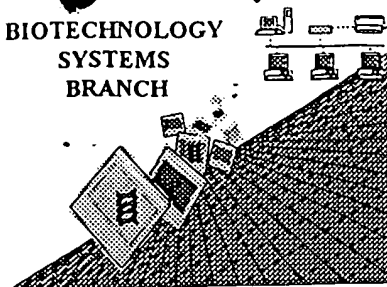


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



2570/0370
316

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/754,853
Source: OIPF
Date Processed by STIC: 1/23/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST 25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/754,853

DATE: 01/23/2001

TIME: 15:39:47

Input Set : D:\pa_00330.txt

Output Set: N:\CRF3\01232001\I754853.raw

Does Not Comply
Corrected Diskette Needed*see p. 5, too*

1 <110> APPLICANT: Parnell, Laurence D.
 2 Hauge, Brian M.
 3 Parsons, Jeremy D.
 4 Wang, Ming Li

6 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules

Associated With

7 Soybean Cyst Nematode Resistance

9 <130> FILE REFERENCE: 38-10(15810)B

OK 11 <140> CURRENT APPLICATION NUMBER: US/09/754,853

11 <141> CURRENT FILING DATE: 2001-01-05

11 <150> PRIOR APPLICATION NUMBER: US 60/174,880

13 <151> PRIOR FILING DATE: 2000-01-07

15 <160> NUMBER OF SEQ ID NOS: 1123

17 <210> SEQ ID NO: 1

18 <211> LENGTH: 127197

19 <212> TYPE: DNA

20 <213> ORGANISM: Glycine max

22 <223> OTHER INFORMATION: Seq ID: 515002_region_G2

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*insert this mandatory
 numeric identifier
 whenever <221>, <222>, or
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The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

1/23/01

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/754,853

DATE: 01/23/2001

TIME: 15:39:47

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Output Set: N:\CRF3\01232001\I754853.raw

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/754,853

DATE: 01/23/2001

TIME: 15:39:47

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/754,853

DATE: 01/23/2001

TIME: 15:39:48

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348	aaattttcct	tagtttgaag	aactaatgtg	acacctcggt	atgcttaatc	atagtttact	9720
350	ctacatagta	agagaaatca	aagaaaaaaa	tagattaggt	atgatattca	taccagattg	9780
352	gaatagtaac	tcgatgacaa	tggagcacac	tgtacgcaat	cacacggaat	ccaaaggaga	9840
354	tcaactccctg	cgtccaacgc	cacgagaaac	gaagtgtctg	gtgttcctat	atcaatccac	9900
356	gtgtaatgca	acctaatac	cagagacgca	ttatcagatt	caaaccgaag	aaaagggagc	9960
358	aattagggat	tattattatt	attattatta	ttattaccag	ccgaagtcgt	tgccgagcga	10020
360	catcgttttg	ctaccgtgag	aaggaaacag	tagctggtag	cgtgcgcctc	cgactttgat	10080
362	cttgcgccgg	agaatgtcgc	cggtgagaag	catccggtag	tagcccatgc	tccaccggtc	10140
364	cggccagtat	ccggtcggag	gccgaaccgg	tttcatttcg	tcggcggaagc	ggtgaacgag	10200
366	gcgggcggaa	aacgtgatcg	gaaccggcat	tgcgcgagcc	gttaccaaaa	gcaacaaaag	10260
368	cagcaaccgc	caccgcatcg	agatcgagat	ctggcacttg	cacttattct	gatgcctcgt	10320
370	tttaactgat	ttaagtaacg	attagtgtta	attagtggag	tgagggtgcg	cagtgtgcat	10380
372	catcatcgcc	atggatcgta	tcgtttcgtc	cctgtgtggc	tgtgtgtgag	tgagagtga	10440
374	agtgagagtg	agggtgata	aaacaaacaa	acaaaactag	cgcattttgt	tgcgggtgga	10500
376	attagactgt	tactaagtgc	ttaattaatg	gggaaaggaa	agtggtatga	ttagtgtttg	10560

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/754,853

DATE: 01/23/2001

TIME: 15:39:48

Input Set : D:\pa_00330.txt

Output Set: N:\CRF3\01232001\I754853.raw

```

378 taacagtaag tgattattgt aaatgatgat taggaggaat aaggggtgcaa cactgcagcg 10620
380 acgaagcgaa acgtcacgcg cgggtggcccc accatgtctt tacgtgcttg agaatgaaac 10680
382 ggcccttttat tgccgatgtc gatttgtctt tgcactgtg gggcccccca catttattat 10740
384 tattcctttc cttttacgaa ataaaaaata aaaaatcaaa caaacaaggc aaaagggttc 10800
386 ttaagtattt agtttcatta tataaataaa ataaatgcct agatctagta aataatcaca 10860
388 ttatgtggty tgggtcagga ataaagcttc acacacgaaa aaagaaatct tgcaagtaaa 10920
390 cagctgaaca cattaattgt ttttaaagaa atctaaagtt attgaagaaa acaactgaga 10980
392 catgataatt tgactaatta atacttttag tgaaggagac gtattttaaa agataaagta 11040
394 taattataat aataattaat aaaataaata acgatttaata tttagtaatt tcattctatg 11100
396 taatattagt atgatctcaa ctcaactgat aattttcaag ataatagtta taattgcact 11160
398 ctgtggaatc ttaagttctt tctccaaaga aaaaaaaaaa cattttttct tccccttgct 11220
400 gtgttctctt attctgccat ctccaattct gtccacaatc gtaggttgty ccgccaatga 11280
402 tgtttaatga taaagatcaa atacgtttgc aatgaatcgg gatgacaaga ctgagacaac 11340
404 caataggtya agctaaccaa tgcacaagtg ctccaatcaa taaaacaggc ccaaaaaggt 11400
406 ggggtggtcc aaaaatgtgaa ggtaagtta agtagggtyt tcacgccttg gattgctctt 11460
408 gtgtaaatcc gtcacccaat ccaaacaaaa aatatggat ggatttgyt gtttttctt 11520
410 ttaaatcgac ctaatctgat catgaatgaa ttgatcgag atggatttgyt tattaaaaaa 11580
412 agttcaaaaa taattttctt aaatttttta aaatattttt tagaatttac aatacaatta 11640
414 cttgtaatat agttgcataa aaaaaattaa ccaccaattt caatgcacat attactgca 11700
416 tcataaaatc aaattgaaaa caagtaacca acaaacattt aatttataaa gcaataata 11760
418 ctaaatcaaa tttcaaccat aaagcagata acaaatgtc ttgaaaactt agtaacttta 11820
420 taaagtacac actagtacaa aataaactta aaatcatccc aaaaaatata taatactaca 11880
422 atagaaacac tgcaatatag tgataatgtc agacaattgc tcaaccagcc aacctcacac 11940
424 atagaaacac ggtaagcaaa agatcaaaat caattattat actaataata aatttaaatt 12000
426 atgctatgca gaaaaaagaa atatgccaaa aaagaaatca tatcataaac taagttaaaa 12060
428 atattacctt aagaactaat agtcctaact cccaatacta atactcctaa gaatagtcca 12120
430 agtagtaatc ctaacactaa cattatttaa agtcaaaacca tacaacttta aaaaatgttt 12180
432 taaaaagttc atcataacat aatatcaatt tatattcata ttgtaaaaca acggaaaaaa 12240
434 aaaaagaaac tattattgaa tacctagttc catctttttt gtttcatcta attcaactcg 12300
436 taaatcaccg acattttgct tattagtttt gagtcaattt tgggtacaaa tcaaagcttc 12360
438 aacagtaatg ggacttaaag aactacaaaa atggatcaag cactcaacct tttgtactaa 12420
440 atgcagactc aaatgacaca atagacataa gaatgaccaa tatatctcta gccatgaaag 12480
442 aaataacatg atatttggat gctttcattt tccaccatgc caaaatgtca aatccaagac 12540
444 cgtcatcttc attgtcatcc tttaaataca tatccaactc actcctttgc tattccaccac 12600
446 attttttatt cattttcaat ctaaaattggt cgtcccaatc ctcatcctca tcaacatcgt 12660
448 tggcattacc ttgtgaagca tggatgaag ccaaagtact agaattacta ctatcaatgg 12720
450 aaataggatg ttctgaagca tattcaacaa acatttttct tataagatca tccaattttt 12780
452 tcagcatctc tttggttttg tcaacaccat gcattttctt aaaacaaaaa tcaatataat 12840
454 caaatttata acacagatca agaaaagcag tcacaaataa aagatagcta atctgatcac 12900
456 tctctcaata cttgttaaac ttgagttgca tattagttgt ctcttttgta tcaccggatc 12960
458 atcctcatgc ctccatctat ttaggcattt ctgaatagta accaacttct taaagaaatt 13020
460 cttagctgta acatgtagty acccagaaaa aaaaattgca tcatagaaaa ctttcaaaaa 13080
462 actcacaac acacgagcat gtttctaate catctcttta ggacatcctc ctccactatt 13140
464 tagaagagty agcacatatg cagcctcaac atactcataa cgattgaaaag cttgttcaaa 13200
466 ttttcagcaa catctaacat caaataagty gagtgacca gaaaaaaaaa ttgcatcata 13260
468 gaaaactttc aaaaaactca caaacacacg agcacgtttc taatccatct ctttaggaca 13320
470 tctccttca ctatttagaa gagtgagcac atatgcagcc tcaacatact cataacgatt 13380
472 gaaagcttgy tcaaattttc agcaacatct aacatcaaat aagtggagtt ccatctggtt 13440
474 ggcacattaa gtgttagcat tgcctttgaa tttaactaa cgtcctccgc acacctctt 13500

```

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

FYI

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/754,853

DATE: 01/23/2001
TIME: 15:39:49

Input Set : D:\pa_00330.txt
Output Set: N:\CRF3\01232001\I754853.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:5859 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 2
L:6021 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 2
L:17361 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 3
L:35814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:35816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:37292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:37294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:37656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:37658 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:37660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:37662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:37668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:44618 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 8
L:44780 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 8
L:45076 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 9
L:45382 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 10
L:45680 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 11
L:45985 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 12
L:46281 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 13
L:46427 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 14
L:46589 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 14
L:46885 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 15
L:47031 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 16
L:47193 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 16
L:47489 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 17
L:47795 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 18
L:48095 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 19
L:48398 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 20
L:48698 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 21
L:49001 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 22
L:49301 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 23